

1st EIC Yellow Report Workshop at Temple University

Report of Contributions

Contribution ID: 1

Type: **not specified**

Welcome

Thursday, 19 March 2020 08:30 (10 minutes)

Presenters: METZ, Andreas (Temple University); SURROW, Bernd (Temple University)

Session Classification: EIC Project Status - Part 1

Contribution ID: 2

Type: **not specified**

Statement by ALD's BNL and JLab

Thursday, 19 March 2020 08:40 (10 minutes)

Presenters: MUELLER, Berndt (BNL); MCKEOWN, Bob (JLab)

Session Classification: EIC Project Status - Part 1

Contribution ID: 3

Type: **not specified**

EIC project overview

Thursday, 19 March 2020 08:50 (30 minutes)

Presenter: YECK, James (University of Wisconsin-Madison and Brookhaven National Laboratory)

Session Classification: EIC Project Status - Part 1

Contribution ID: 4

Type: **not specified**

Machine design status and plans

Thursday, 19 March 2020 09:45 (30 minutes)

Presenter: WILLEKE, Ferdinand (BNL)

Session Classification: EIC Project Status - Part 1

Contribution ID: 5

Type: **not specified**

IR design status and plans

Presenter: WITTE, Holger (BNL)

Session Classification: EIC Project Status - Part 1

Contribution ID: 6

Type: **not specified**

IR design status and plans

Thursday, 19 March 2020 11:00 (30 minutes)

Presenter: WITTE, Holger (BNL)

Session Classification: EIC Project Status - Part 2

Contribution ID: 7

Type: **not specified**

YR goals and plans

Thursday, 19 March 2020 11:45 (15 minutes)

Presenters: ENT, Rolf (Jefferson Lab); ULLRICH, Thomas (BNL)

Session Classification: EIC Project Status - Part 2

Contribution ID: 8

Type: **not specified**

Software WG Overview

Thursday, 19 March 2020 12:15 (30 minutes)

Presenter: DIEFENTHALER, Markus (Jefferson Lab)

Session Classification: EIC Project Status - Part 2

Contribution ID: 9

Type: **not specified**

EIC project overview - Discussion / Questions

Thursday, 19 March 2020 09:20 (25 minutes)

Session Classification: EIC Project Status - Part 1

Contribution ID: **10**

Type: **not specified**

Machine design status and plans - Discussion / Questions

Thursday, 19 March 2020 10:15 (25 minutes)

Session Classification: EIC Project Status - Part 1

Contribution ID: **11**

Type: **not specified**

IR design status and plans - Discussion / Questions

Thursday, 19 March 2020 11:30 (15 minutes)

Session Classification: EIC Project Status - Part 2

Contribution ID: 12

Type: **not specified**

YR goals and plans - Discussion / Questions

Thursday, 19 March 2020 12:00 (15 minutes)

Session Classification: EIC Project Status - Part 2

Contribution ID: **13**

Type: **not specified**

Software WG Overview - Discussion / Questions

Thursday, 19 March 2020 12:45 (15 minutes)

Session Classification: EIC Project Status - Part 2

Contribution ID: 14

Type: **not specified**

Inclusive reactions WG

Thursday, 19 March 2020 14:00 (10 minutes)

Presenters: SCHMOOKLER, Barak (Stony Brook University); FATEMI, Renee (University of Kentucky); SATO, nobuo (Jefferson Lab)

Session Classification: Physics WG

Contribution ID: 15

Type: **not specified**

Semi-inclusive Reactions WG

Thursday, 19 March 2020 14:20 (10 minutes)

Presenters: VOSSEN, Anselm (Duke University); XIAO, Bowen (Central China Normal University); STEVENS, Justin (William & Mary); SEIDL, Ralf (RIKEN); ALEXEY, Vladimirov (Regensburg University)

Session Classification: Physics WG

Contribution ID: **16**

Type: **not specified**

Jets, Heavy Quarks WG

Thursday, 19 March 2020 14:40 (10 minutes)

Presenters: PAGE, Brian (Brookhaven National Laboratory); SICHTERMANN, Ernst (Lawrence Berkeley National Laboratory); PETRIELLO, Frank (Northwestern University); VITEV, Ivan (LANL); CUN-QUEIRO, Leticia (ORNL)

Session Classification: Physics WG

Contribution ID: **18**

Type: **not specified**

Exclusive Reactions WG

Thursday, 19 March 2020 15:00 (10 minutes)

Presenters: PASQUINI, Barbara (University of Pavia and INFN, Pavia); SOKHAN, Daria; DUPRE, Raphael (IPN Orsay); FAZIO, Salvatore (Brookhaven National Laboratory); LAPPI, Tuomas (University of Jyväskylä)

Session Classification: Physics WG

Contribution ID: 19

Type: **not specified**

Diffraction Reactions & Tagging WG

Thursday, 19 March 2020 15:20 (10 minutes)

Presenters: STASTO, Anna (Penn State University); HIGINBOTHAM, Douglas (Jefferson Lab); HEN, Or (MIT); KLEIN, Spencer (LBNL); COSYN, Wim (FIU)

Session Classification: Physics WG

Contribution ID: **20**

Type: **not specified**

Discussion

Thursday, 19 March 2020 15:40 (20 minutes)

Session Classification: Physics WG

Contribution ID: 21

Type: **not specified**

Inclusive reactions WG summary

Saturday, 21 March 2020 08:30 (10 minutes)

Presenters: SCHMOOKLER, Barak (Stony Brook University); FATEMI, Renee (University of Kentucky); SATO, nobuo (Jefferson Lab)

Session Classification: Working Group Summaries

Contribution ID: 22

Type: **not specified**

Semi-inclusive Reactions WG summary

Saturday, 21 March 2020 08:45 (10 minutes)

Presenters: VOSSEN, Anselm (Duke University); XIAO, Bowen (Central China Normal University); STEVENS, Justin (William & Mary); SEIDL, Ralf (RIKEN); ALEXEY, Vladimirov (Regensburg University)

Session Classification: Working Group Summaries

Contribution ID: 23

Type: **not specified**

Jets, Heavy Quarks WG summary

Saturday, 21 March 2020 09:00 (10 minutes)

Presenters: PAGE, Brian (Brookhaven National Laboratory); SICHTERMANN, Ernst (Lawrence Berkeley National Laboratory); PETRIELLO, Frank (Northwestern University); VITEV, Ivan (LANL); CUN-QUEIRO, Leticia (ORNL)

Session Classification: Working Group Summaries

Contribution ID: 24

Type: **not specified**

Exclusive Reactions WG summary

Saturday, 21 March 2020 09:15 (10 minutes)

Presenters: PASQUINI, Barbara (University of Pavia and INFN, Pavia); SOKHAN, Daria; DUPRE, Raphael (IPN Orsay); FAZIO, Salvatore (Brookhaven National Laboratory); LAPPI, Tuomas (University of Jyvaskyla)

Session Classification: Working Group Summaries

Contribution ID: 25

Type: **not specified**

Diffraction Reactions & Tagging WG summary

Saturday, 21 March 2020 09:30 (10 minutes)

Presenters: STASTO, Anna (Penn State University); HIGINBOTHAM, Douglas (Jefferson Lab); HEN, Or (MIT); KLEIN, Spencer (LBNL); COSYN, Wim (FIU)

Session Classification: Working Group Summaries

Contribution ID: 26

Type: **not specified**

Tracking WG summary

Saturday, 21 March 2020 09:45 (10 minutes)

Presenters: MASTROSERIO, Annalisa (Università degli Studi di Foggia and INFN); GNANVO, Kondo (University of Virginia); GREINER, Leo (LBNL)

Session Classification: Working Group Summaries

Contribution ID: 27

Type: **not specified**

Software - Questions / Discussion

Saturday, 21 March 2020 11:30 (1 hour)

Session Classification: Software Discussion / International engagement Discussion

Contribution ID: **28**

Type: **not specified**

International engagement - Discussion

Saturday, 21 March 2020 12:30 (1 hour)

Session Classification: Software Discussion / International engagement Discussion

Contribution ID: 29

Type: **not specified**

Summary of available DVCS and GPDs impact studies in e+p at EIC

Thursday, 19 March 2020 16:30 (20 minutes)

Presenter: FAZIO, Salvatore (Brookhaven National Laboratory)

Session Classification: Physics WG Exclusive

Contribution ID: **30**

Type: **not specified**

DVCS and π^0 study

Thursday, 19 March 2020 16:50 (20 minutes)

Presenter: GIROD, Francois-Xavier (JLab)

Session Classification: Physics WG Exclusive

Contribution ID: **31**

Type: **not specified**

TCS with PARTONS

Friday, 20 March 2020 09:30 (20 minutes)

Presenter: WAGNER, Jakub (National Centre for Nuclear Research)

Session Classification: Physics WG Exclusive

Contribution ID: **32**

Type: **not specified**

Common discussion: "what we have & what's next?"

Thursday, 19 March 2020 17:30 (30 minutes)

Session Classification: Physics WG Exclusive

Contribution ID: 33

Type: **not specified**

Summary of available studies on VMP in e+p collisions at EIC

Friday, 20 March 2020 08:30 (20 minutes)

Presenter: JOOSTEN, Sylvester (Argonne National Laboratory)

Session Classification: Physics WG Exclusive

Contribution ID: 34

Type: **not specified**

Summary of studies and challenges for VMP in e+A collisions at EIC

Friday, 20 March 2020 08:50 (20 minutes)

Presenter: ULLRICH, Thomas (BNL)

Session Classification: Physics WG Exclusive

Contribution ID: 35

Type: **not specified**

Exclusive di-jet production as an access gluon Wigner fcn.

Friday, 20 March 2020 09:10 (20 minutes)

Presenter: MANTYSAARI, Heikki

Session Classification: Physics WG Exclusive

Contribution ID: 36

Type: **not specified**

Common discussion: "what we have & what's next?"

Friday, 20 March 2020 09:50 (40 minutes)

Session Classification: Physics WG Exclusive

Contribution ID: 37

Type: **not specified**

Accessing the transverse force in a nucleon

Friday, 20 March 2020 11:00 (20 minutes)

Presenter: BURKARDT, Matthias (New Mexico State U.)

Session Classification: Physics WG Exclusive

Contribution ID: **38**

Type: **not specified**

Common discussion chaired by Christian Weiss

Friday, 20 March 2020 11:40 (1h 20m)

What is the needed kinematic reach (in x and Q^2)?
What is the lowest c.o.m. energy we need to reach?

Presenter: WEISS, Christian (Jefferson Lab)

Session Classification: Physics WG Exclusive

Contribution ID: 39

Type: **not specified**

Separating Coherent and Incoherent Interactions

Friday, 20 March 2020 14:00 (5 minutes)

Presenter: KLEIN, Spencer (LBNL)

Session Classification: Exclusive/Diffractive - Tagging/DWG

Contribution ID: 40

Type: **not specified**

Coherent DVCS with light nuclei

Friday, 20 March 2020 14:10 (5 minutes)

Presenters: STASTO, Anna (Penn State University); PASQUINI, Barbara (University of Pavia and INFN, Pavia); SOKHAN, Daria; HIGINBOTHAM, Douglas (Jefferson Lab); HEN, Or (MIT); DUPRE, Raphael (IPN Orsay); FAZIO, Salvatore (Brookhaven National Laboratory); KLEIN, Spencer (LBNL); LAPPI, Tuomas (University of Jyväskylä)

Session Classification: Exclusive/Diffractive - Tagging/DWG

Contribution ID: 41

Type: **not specified**

Effect of beam smearing on tagging/Accessible t-range

Friday, 20 March 2020 14:20 (5 minutes)

Presenter: WEISS, Christian (Jefferson Lab)

Session Classification: Exclusive/Diffractive - Tagging/DWG

Contribution ID: 42

Type: **not specified**

Requirements on tracking from VMP in e+A

Friday, 20 March 2020 14:30 (5 minutes)

Presenter: ULLRICH, Thomas (BNL)

Session Classification: Exclusive/Diffractive - Tagging/DWG

Contribution ID: 43

Type: **not specified**

Current simulation results with IR + detectors

Friday, 20 March 2020 14:50 (30 minutes)

Presenter: JENTSCH, Alexander (Brookhaven National Lab)

Session Classification: Exclusive/Diffractive - Tagging/DWG

Contribution ID: 44

Type: **not specified**

Discussion

Friday, 20 March 2020 15:20 (10 minutes)

Session Classification: Exclusive/Diffractive - Tagging/DWG

Contribution ID: 45

Type: **not specified**

PWG/DWG common questions

Friday, 20 March 2020 16:00 (1 hour)

- 1.- Common set of energies, beam species, luminosities, and polarization
- 2.- What physics processes drive each detector component the most, and what are these requirements?
- 3.- Considerations/constraints from the detector design side that must be included into baseline physics simulations
- 4.- How do we organize the various steps of the work that require interactions and feedback between PWG and DWG ?

Session Classification: Joint PWG/DWG Session - Detector Complementarity Discussion

Contribution ID: 46

Type: **not specified**

Detector complementarity discussion

Friday, 20 March 2020 17:00 (1h 30m)

Presenter: ASCHENAUER, E. C. (BNL)

Session Classification: Joint PWG/DWG Session - Detector Complementarity Discussion

Contribution ID: 47

Type: **not specified**

N -> N* transition GPDs

Friday, 20 March 2020 11:20 (20 minutes)

Presenter: TANDOĞAN, Asli (Bochum U.)

Session Classification: Physics WG Exclusive

Contribution ID: 48

Type: **not specified**

Silicon Sensors for Forward Tracking

Thursday, 19 March 2020 14:00 (30 minutes)

Presenter: LI, Xuan (Los Alamos National Lab)

Session Classification: Detector WG Far Forward Detector + Ancillary detectors / Polarimetry / Luminosity

Contribution ID: 49

Type: **not specified**

Sensors for Roman Pots - eRD24

Thursday, 19 March 2020 14:30 (30 minutes)

Presenter: TRICOLI, Alessandro (Brookhaven National Lab)

Session Classification: Detector WG Far Forward Detector + Ancillary detectors / Polarimetry / Luminosity

Contribution ID: 50

Type: **not specified**

Zero Degree Calorimetry

Thursday, 19 March 2020 15:00 (30 minutes)

Presenter: GOTO, Yuji (RIKEN)

Session Classification: Detector WG Far Forward Detector + Ancillary detectors / Polarimetry / Luminosity

Contribution ID: 51

Type: **not specified**

Open Discussion

Thursday, 19 March 2020 15:30 (30 minutes)

Presenter: JENTSCH, Alexander (Brookhaven National Lab)

Session Classification: Detector WG Far Forward Detector + Ancillary detectors / Polarimetry / Luminosity

Contribution ID: 52

Type: **not specified**

Introduction

Friday, 20 March 2020 08:30 (30 minutes)

Presenters: CELENTANO, Andrea (INFN-Genova); NEYRET, Damien (CEA Saclay IRFU/DPhN)

Session Classification: Detector WG Electronics/DAQ

Contribution ID: 53

Type: **not specified**

Overview of eR&D23 activities

Friday, 20 March 2020 09:00 (30 minutes)

Presenter: BATTAGLIERI, Marco (Jefferson Lab)

Session Classification: Detector WG Electronics/DAQ

Contribution ID: 54

Type: **not specified**

Discussion

Friday, 20 March 2020 09:30 (15 minutes)

Session Classification: Detector WG Electronics/DAQ

Contribution ID: 55

Type: **not specified**

EIC data rates and noise estimates for a streaming readout system

Friday, 20 March 2020 09:45 (30 minutes)

Presenter: Dr HUANG, Jin (Brookhaven National Lab)

Session Classification: Detector WG Electronics/DAQ

Contribution ID: 56

Type: **not specified**

Discussion

Friday, 20 March 2020 10:15 (15 minutes)

Session Classification: Detector WG Electronics/DAQ

Contribution ID: 57

Type: **not specified**

Meson structure functions - (forward) detector requirements

Friday, 20 March 2020 14:40 (5 minutes)

Presenter: HORN, Tanja (Cath)

Session Classification: Exclusive/Diffractive - Tagging/DWG

Contribution ID: 58

Type: **not specified**

Introduction

Thursday, 19 March 2020 14:00 (10 minutes)

Presenters: HEMMICK, Thomas (Stony Brook University); ROSSI, Patrizia (Jefferson Lab)

Session Classification: Detector WG PID

Contribution ID: 59

Type: **not specified**

High-Resolution ps TOF for PID at the EIC

Thursday, 19 March 2020 14:10 (20 minutes)

Presenter: Dr CHIU, Mickey (Brookhaven National Lab)

Session Classification: Detector WG PID

Contribution ID: **60**

Type: **not specified**

Evaluation of small photo-sensors in high magnetic fields for EIC PID

Thursday, 19 March 2020 15:05 (15 minutes)

Presenter: ILIEVA, Yordanka (University of South Carolina)

Session Classification: Detector WG PID

Contribution ID: **61**

Type: **not specified**

Development of MCP-PMT/LAPPD and exploring their application for particle identification

Thursday, 19 March 2020 14:30 (15 minutes)

Presenter: XIE, Junqi (ANL)

Session Classification: Detector WG PID

Contribution ID: 62

Type: **not specified**

A LGAD-based Time-of-Flight System for EIC - leveraging experience from the HL-LHC upgrade

Thursday, 19 March 2020 14:45 (20 minutes)

Presenter: LI, Wei (Rice University)

Session Classification: Detector WG PID

Contribution ID: 63

Type: **not specified**

Dual Ring Imaging Cherenkov status

Thursday, 19 March 2020 15:20 (20 minutes)

Presenters: CISBANI, Evaristo (Italian National Institute of Health and Italian Institute of Nuclear Physics); CONTALBRIGO, Marco (INFN Ferrara)

Session Classification: Detector WG PID

Contribution ID: 64

Type: **not specified**

The high-performance DIRC detector for the Electron Ion Collider detector

Thursday, 19 March 2020 15:40 (20 minutes)

Presenter: KALICY, Grzegorz (ODU)

Session Classification: Detector WG PID

Contribution ID: 65

Type: **not specified**

mRICH for EIC - past, present and future

Thursday, 19 March 2020 16:30 (20 minutes)

Presenter: HE, Xiaochun (Georgia State University)

Session Classification: Detector WG PID

Contribution ID: **66**

Type: **not specified**

Quintuple-GEM Based RICH Detector for EIC

Thursday, 19 March 2020 16:50 (20 minutes)

Presenter: GARG, Prakhar (Stony Brook University)

Session Classification: Detector WG PID

Contribution ID: 67

Type: **not specified**

High Momentum PID at EIC (in 10 years from now)

Thursday, 19 March 2020 17:10 (20 minutes)

Presenter: DALLA TORRE, Silvia (INFN, Trieste)

Session Classification: Detector WG PID

Contribution ID: 68

Type: **not specified**

General discussion on the working plan and deliverables for the Pavia workshop

Thursday, 19 March 2020 17:30 (30 minutes)

Session Classification: Detector WG PID

Contribution ID: **69**

Type: **not specified**

Plan and Workflow

Friday, 20 March 2020 08:30 (5 minutes)

Presenter: FATEMI, Renee (University of Kentucky)

Session Classification: Physics WG Inclusive

Contribution ID: 70

Type: **not specified**

Nuclear shadowing in DIS for future electron-ion colliders

Friday, 20 March 2020 08:35 (15 minutes)

Presenter: KRELINA, Michal (FNSPE Czech Technical University in Prague)

Session Classification: Physics WG Inclusive

Contribution ID: 71

Type: **not specified**

EIC impact on unpolarized PDFs: a preliminary study

Friday, 20 March 2020 08:50 (15 minutes)

Presenter: ACCARDI, Alberto (Hampton U. and Jefferson Lab)

Session Classification: Physics WG Inclusive

Contribution ID: 72

Type: **not specified**

Wish List

Friday, 20 March 2020 09:05 (15 minutes)

Presenter: OLNESS, Fredrick (SMU)

Session Classification: Physics WG Inclusive

Contribution ID: 73

Type: **not specified**

Constraining the unpolarized proton PDFs at EIC through inclusive measurements

Friday, 20 March 2020 09:20 (15 minutes)

Presenter: CHU, Xiaoxuan (BNL)

Session Classification: Physics WG Inclusive

Contribution ID: 74

Type: **not specified**

Kinematic reconstruction methods

Friday, 20 March 2020 09:35 (15 minutes)

Presenter: SURROW, Bernd (Temple University)

Session Classification: Physics WG Inclusive

Contribution ID: 75

Type: **not specified**

Charm production in CCDIS at EIC

Friday, 20 March 2020 09:50 (15 minutes)

Presenter: NAM, Jae (Temple University)

Session Classification: Physics WG Inclusive

Contribution ID: 76

Type: **not specified**

Vertex Level Events

Friday, 20 March 2020 11:00 (30 minutes)

Presenter: SATO, nobuo (Jefferson Lab)

Session Classification: Physics WG Inclusive

Contribution ID: 77

Type: **not specified**

Detector Level Events

Friday, 20 March 2020 11:30 (30 minutes)

Presenter: SCHMOOKLER, Barak (Stony Brook University)

Session Classification: Physics WG Inclusive

Contribution ID: 78

Type: **not specified**

Reconstruction

Friday, 20 March 2020 12:00 (30 minutes)

Presenter: FATEMI, Renee (University of Kentucky)

Session Classification: Physics WG Inclusive

Contribution ID: 79

Type: **not specified**

Introduction to YR-Tracking WG and activities

Thursday, 19 March 2020 14:00 (15 minutes)

Presenter: GNANVO, Kondo (University of Virginia)

Session Classification: Detector WG Tracking

Contribution ID: **80**

Type: **not specified**

Survey of Silicon Detector Technologies

Thursday, 19 March 2020 14:15 (15 minutes)

Presenter: GONELLA, Laura

Session Classification: Detector WG Tracking

Contribution ID: **81**

Type: **not specified**

ITS3 Technology

Thursday, 19 March 2020 14:30 (15 minutes)

Presenter: GREINER, Leo (LBNL)

Session Classification: Detector WG Tracking

Contribution ID: **82**

Type: **not specified**

Survey of Gaseous Detector Technologies

Thursday, 19 March 2020 14:45 (10 minutes)

Presenter: GNANVO, Kondo (University of Virginia)

Session Classification: Detector WG Tracking

Contribution ID: **83**

Type: **not specified**

Report on eRD6 and eRD22 activities

Thursday, 19 March 2020 14:55 (20 minutes)

Presenter: POSIK, Matt (Temple University)

Session Classification: Detector WG Tracking

Contribution ID: **84**

Type: **not specified**

Cylindrical Micromegas for the Central Tracking

Thursday, 19 March 2020 15:15 (10 minutes)

Presenter: BOSSU, Francesco (CEA-Saclay)

Session Classification: Detector WG Tracking

Contribution ID: 85

Type: **not specified**

Drift Chambers and Straw Tubes for Central Tracking

Thursday, 19 March 2020 15:25 (20 minutes)

Presenter: GRANCAGNOLO, Franco

Session Classification: Detector WG Tracking

Contribution ID: **86**

Type: **not specified**

sTGCs for the End Cap Tracking

Thursday, 19 March 2020 15:45 (15 minutes)

Presenter: BRANDENBURG, Daniel (Brookhaven National Laboratory)

Session Classification: Detector WG Tracking

Contribution ID: 87

Type: **not specified**

Introduction to YR-Tracking WG Simulation

Thursday, 19 March 2020 16:30 (15 minutes)

Presenter: ELIA, Domenico (INFN Bari)

Session Classification: Detector WG Tracking

Contribution ID: **88**

Type: **not specified**

Overview of Tracking Simulation needs and Plans

Thursday, 19 March 2020 16:45 (30 minutes)

Presenter: JACAK, Barbara

Session Classification: Detector WG Tracking

Contribution ID: **89**

Type: **not specified**

Including detector services in simulations

Thursday, 19 March 2020 17:15 (15 minutes)

Presenter: GREINER, Leo (LBNL)

Session Classification: Detector WG Tracking

Contribution ID: **90**

Type: **not specified**

Open Discussion

Thursday, 19 March 2020 17:30 (30 minutes)

Presenter: ALL

Session Classification: Detector WG Tracking

Contribution ID: **91**

Type: **not specified**

Initial considerations for EIC detector EMCAL

Thursday, 19 March 2020 14:00 (35 minutes)

Presenter: BAZILEVSKY, Alexander (BNL)

Session Classification: Detector WG Calorimetry

Contribution ID: 92

Type: **not specified**

Electromagnetic calorimetry technologies for EIC

Thursday, 19 March 2020 14:35 (30 minutes)

Presenter: HORN, Tanja (Cath)

Session Classification: Detector WG Calorimetry

Contribution ID: 93

Type: **not specified**

Jet detection requirements for the EIC calorimeters

Thursday, 19 March 2020 15:05 (25 minutes)

Presenter: PAGE, Brian (Brookhaven National Laboratory)

Session Classification: Detector WG Calorimetry

Contribution ID: 94

Type: **not specified**

Hadronic calorimetry technologies for EIC

Thursday, 19 March 2020 15:30 (30 minutes)

Presenter: TSAI, oleg (ucla)

Session Classification: Detector WG Calorimetry

Contribution ID: 95

Type: **not specified**

Streaming readout simulation: activity at JLab

Friday, 20 March 2020 11:00 (30 minutes)

Presenter: Dr UNGARO, Maurizio (Jefferson Lab)

Session Classification: Detector WG Electronics/DAQ

Contribution ID: **96**

Type: **not specified**

Spectroscopy overview/theory

Thursday, 19 March 2020 16:30 (30 minutes)

Primary author: PILLONI, Alessandro (ECT*)

Presenter: PILLONI, Alessandro (ECT*)

Session Classification: Physics WG Semi-Inc

Contribution ID: 97

Type: **not specified**

Spectroscopy experiment

Thursday, 19 March 2020 17:00 (30 minutes)

Presenter: STEVENS, Justin (William & Mary)

Session Classification: Physics WG Semi-Inc

Contribution ID: **98**

Type: **not specified**

Di-hadron fragmentation update

Thursday, 19 March 2020 17:30 (30 minutes)

Presenter: VOSSEN, Anselm (Duke University)

Session Classification: Physics WG Semi-Inc

Contribution ID: 99

Type: **not specified**

Lambda fragmentation related measurements

Friday, 20 March 2020 08:30 (30 minutes)

Presenter: ZHANG, Jinlong (Stony Brook University)

Session Classification: Physics WG Semi-Inc

Contribution ID: **100**

Type: **not specified**

(nuclear) Fragmentation function related measurements

Friday, 20 March 2020 09:00 (30 minutes)

Presenters: VAN HULSE, Charlotte; VAN HULSE, Charlotte

Session Classification: Physics WG Semi-Inc

Contribution ID: **101**

Type: **not specified**

Quark Sivers/TMD related measurements

Friday, 20 March 2020 09:30 (30 minutes)

Presenter: PROKUDIN, Alexei (Penn State Berks)

Session Classification: Physics WG Semi-Inc

Contribution ID: **102**

Type: **not specified**

Parton helicity related measurements

Friday, 20 March 2020 10:00 (30 minutes)

Presenter: ASCHENAUER, E. C. (BNL)

Session Classification: Physics WG Semi-Inc

Contribution ID: **103**

Type: **not specified**

Gluon Sivers related measurements

Presenter: ZHENG, Liang

Session Classification: Physics WG Semi-Inc

Contribution ID: **104**

Type: **not specified**

TMD measurements in Jets

Presenter: RINGER, Felix (UC Berkeley/LBNL)

Session Classification: Physics WG Semi-Inc

Contribution ID: **105**

Type: **not specified**

Detector needs for Inclusive Reactions

Friday, 20 March 2020 14:00 (10 minutes)

Presenters: SCHMOOKLER, Barak (Stony Brook University); FATEMI, Renee (University of Kentucky); SATO, nobuo (Jefferson Lab)

Session Classification: Inclusive/SIDIS/Jets/HQ / DWG

Contribution ID: **106**

Type: **not specified**

Spectator tagging in deuteron breakups and kinematics determination using BeAGLE generator

Thursday, 19 March 2020 16:30 (30 minutes)

Presenter: TU, Zhoudunming (BNL)

Session Classification: Physics WG Diffraction and Tagging

Contribution ID: **107**

Type: **not specified**

Detector requirements/input for Heavy Flavor

Friday, 20 March 2020 14:15 (10 minutes)

Presenters: SICHTERMANN, Ernst (Lawrence Berkeley National Laboratory); VITEV, Ivan (LANL)

Session Classification: Inclusive/SIDIS/Jets/HQ / DWG

Contribution ID: **108**

Type: **not specified**

Detector requirements/input for Jets

Friday, 20 March 2020 14:30 (10 minutes)

Presenter: PAGE, Brian (Brookhaven National Laboratory)

Session Classification: Inclusive/SIDIS/Jets/HQ / DWG

Contribution ID: **109**

Type: **not specified**

Detector requirements/input for SIDIS

Friday, 20 March 2020 14:45 (10 minutes)

Presenter: STEVENS, Justin (William & Mary)

Session Classification: Inclusive/SIDIS/Jets/HQ / DWG

Contribution ID: **110**

Type: **not specified**

Update on detection of SRC nucleons in QE kinematics

Thursday, 19 March 2020 17:00 (30 minutes)

Presenter: HAUENSTEIN, Florian (ODU)

Session Classification: Physics WG Diffraction and Tagging

Contribution ID: **111**

Type: **not specified**

PID Request to PWG / Discussion

Friday, 20 March 2020 15:00 (30 minutes)

Presenter: HEMMICK, Thomas (Stony Brook University)

Session Classification: Inclusive/SIDIS/Jets/HQ / DWG

Contribution ID: **112**

Type: **not specified**

Semi-inclusive DIS measurements on $A=3$

Thursday, 19 March 2020 17:30 (30 minutes)

Presenter: NGUYEN, Dien (MIT)

Session Classification: Physics WG Diffraction and Tagging

Contribution ID: 113

Type: **not specified**

Perspectives on diffractive jet production at the EIC” Michael Klasen

Friday, 20 March 2020 08:30 (30 minutes)

Presenter: Prof. KLASEN, Michael (University of Münster)

Session Classification: Physics WG Diffraction and Tagging

Contribution ID: **114**

Type: **not specified**

Inclusive diffraction at future Electron - Ion colliders

Friday, 20 March 2020 09:00 (30 minutes)

Presenter: STASTO, Anna (Penn State University)

Session Classification: Physics WG Diffraction and Tagging

Contribution ID: 115

Type: **not specified**

Coherent vector meson production off heavy nuclei - lessons from studies of ultraperipheral collisions at the LHC

Friday, 20 March 2020 09:30 (30 minutes)

Presenter: STRIKMAN, Mark (PSU)

Session Classification: Physics WG Diffraction and Tagging

Contribution ID: **116**

Type: **not specified**

Probing quantum fluctuations of the nucleon's gluon density with inelastic diffraction at EIC

Friday, 20 March 2020 10:00 (30 minutes)

Presenter: WEISS, Christian (Jefferson Lab)

Session Classification: Physics WG Diffraction and Tagging

Contribution ID: **117**

Type: **not specified**

Near threshold photoproduction $a_2(1320)$ and other topics

Friday, 20 March 2020 11:00 (30 minutes)

Presenter: KLEIN, Spencer (LBNL)

Session Classification: Physics WG Diffraction and Tagging

Contribution ID: **118**

Type: **not specified**

Meson Structure at the EIC

Friday, 20 March 2020 11:30 (30 minutes)

Presenter: TROTTA, Richard (The Catholic University of America)

Session Classification: Physics WG Diffraction and Tagging

Contribution ID: **119**

Type: **not specified**

Discussion

Friday, 20 March 2020 12:00 (1 hour)

Session Classification: Physics WG Diffraction and Tagging

Contribution ID: **120**

Type: **not specified**

Table of measurements in the Jets and Heavy Flavor Working Group

Thursday, 19 March 2020 16:30 (15 minutes)

Presenter: CUNQUEIRO, Leticia (ORNL)

Session Classification: Physics WG Jets, HF

Contribution ID: **121**

Type: **not specified**

Jets for 3D imaging

Thursday, 19 March 2020 16:45 (20 minutes)

Presenter: ARRATIA, Miguel (University of California, Riverside)

Session Classification: Physics WG Jets, HF

Contribution ID: **122**

Type: **not specified**

Heavy flavour reconstruction

Thursday, 19 March 2020 17:05 (20 minutes)

Presenter: LAI, Yue Shi (UC Berkeley)

Session Classification: Physics WG Jets, HF

Contribution ID: **123**

Type: **not specified**

Jet angularities at the EIC

Thursday, 19 March 2020 17:25 (20 minutes)

Presenter: PAGE, Brian (Brookhaven National Laboratory)

Session Classification: Physics WG Jets, HF

Contribution ID: **124**

Type: **not specified**

Table of measurements in the Jets and Heavy Flavor Working Group

Friday, 20 March 2020 08:30 (15 minutes)

Presenter: VITEV, Ivan (LANL)

Session Classification: Physics WG Jets, HF

Contribution ID: 125

Type: **not specified**

Double longitudinal spin asymmetries with jets

Friday, 20 March 2020 08:45 (20 minutes)

Presenter: PETRIELLO, Frank (Northwestern University)

Session Classification: Physics WG Jets, HF

Contribution ID: 126

Type: **not specified**

The angularity event shapes in DIS at the NNLL accuracy

Friday, 20 March 2020 09:05 (20 minutes)

Presenter: MAJI, Tanmay (Fudan U.)

Session Classification: Physics WG Jets, HF

Contribution ID: 127

Type: **not specified**

Energy-Energy Correlators for TMD physics and reduction of uncertainties due to hadronization

Friday, 20 March 2020 09:25 (20 minutes)

Presenter: LI, Haitao (LANL)

Session Classification: Physics WG Jets, HF

Contribution ID: **128**

Type: **not specified**

LANL plans for heavy flavor, quarkonia and jet studies

Friday, 20 March 2020 09:45 (20 minutes)

Presenters: DURHAM, Matt (Los Alamos National Laboratory); Dr LI, Xuan (Los Alamos National Lab)

Session Classification: Physics WG Jets, HF

Contribution ID: **129**

Type: **not specified**

Discussion

Friday, 20 March 2020 10:05 (25 minutes)

Session Classification: Physics WG Jets, HF

Contribution ID: **130**

Type: **not specified**

Modification of heavy flavor in e+A collisions at the EIC

Friday, 20 March 2020 11:50 (25 minutes)

Presenter: LIU, Zelong (LANL)

Session Classification: Physics WG Jets, HF

Contribution ID: **131**

Type: **not specified**

Introductory remarks

Friday, 20 March 2020 08:30 (10 minutes)

Presenter: KISELEV, Alexander (BNL)

Session Classification: Detector WG Central Detector / Magnet

Contribution ID: **132**

Type: **not specified**

Photo-sensors in a strong magnetic field: options for EIC

Friday, 20 March 2020 08:40 (20 minutes)

Presenter: XIE, Junqi (ANL)

Session Classification: Detector WG Central Detector / Magnet

Contribution ID: 133

Type: **not specified**

Forward gaseous RICH performance in the EIC-sPHENIX solenoid fringe field

Friday, 20 March 2020 09:00 (15 minutes)

Presenter: HUANG, Jin (Brookhaven National Lab)

Session Classification: Detector WG Central Detector / Magnet

Contribution ID: 134

Type: **not specified**

BeAST solenoid magnetic field calculation and accompanying studies

Friday, 20 March 2020 09:45 (15 minutes)

Presenter: KISELEV, Alexander (BNL)

Session Classification: Detector WG Central Detector / Magnet

Contribution ID: 135

Type: **not specified**

Low Pt track cutoff implications of a strong solenoid magnetic field

Friday, 20 March 2020 09:15 (15 minutes)

Presenter: FURLETOVA, Yulia (Jefferson Lab)

Session Classification: Detector WG Central Detector / Magnet

Contribution ID: **136**

Type: **not specified**

Momentum resolution and magnetic field strength for an EIC detector

Friday, 20 March 2020 09:30 (15 minutes)

Presenter: LUKOW, Nick (Temple University)

Session Classification: Detector WG Central Detector / Magnet

Contribution ID: 137

Type: **not specified**

Design considerations for the EIC central detector solenoid (discussion and QA session)

Friday, 20 March 2020 10:00 (30 minutes)

Session Classification: Detector WG Central Detector / Magnet

Contribution ID: **138**

Type: **not specified**

Technical requirements for the luminosity detector and the low-Q²-tagger

Thursday, 19 March 2020 16:30 (30 minutes)

Presenter: ADAM, Jaroslav (BNL)

Session Classification: Detector WG Far Forward Detector + Ancillary detectors / Polarimetry / Luminosity

Contribution ID: **139**

Type: **not specified**

Technical requirements for the lepton polarimeter

Thursday, 19 March 2020 17:00 (30 minutes)

Presenter: CAMSONNE, Alexandre (JLAB)

Session Classification: Detector WG Far Forward Detector + Ancillary detectors / Polarimetry / Luminosity

Contribution ID: **140**

Type: **not specified**

Technical requirements for the different hadron polarimeters

Thursday, 19 March 2020 17:30 (30 minutes)

Presenter: EYSER, Oleg (BNL)

Session Classification: Detector WG Far Forward Detector + Ancillary detectors / Polarimetry / Luminosity

Contribution ID: **141**

Type: **not specified**

Discussion

Thursday, 19 March 2020 18:00 (30 minutes)

Session Classification: Detector WG Far Forward Detector + Ancillary detectors / Polarimetry / Luminosity

Contribution ID: **142**

Type: **not specified**

Background sources and studies at the EIC

Friday, 20 March 2020 12:15 (20 minutes)

Presenter: ELOUARDHIRI, Latifa (JLab)

Session Classification: Detector WG Central Detector / Magnet

Contribution ID: 143

Type: **not specified**

Studies of beam-gas background, neutron flux, radiation dose at an EIC

Friday, 20 March 2020 12:35 (15 minutes)

Presenter: HUANG, Jin (Brookhaven National Lab)

Session Classification: Detector WG Central Detector / Magnet

Contribution ID: 144

Type: **not specified**

Synchrotron radiation studies with the present EIC IR vacuum system design

Friday, 20 March 2020 11:45 (30 minutes)

Presenter: HETZEL, Charles (BNL)

Session Classification: Detector WG Central Detector / Magnet

Contribution ID: 145

Type: **not specified**

A possible method for adding services load to the EIC simulations

Friday, 20 March 2020 11:00 (20 minutes)

Presenter: GREINER, Leo (LBNL)

Session Classification: Detector WG Central Detector / Magnet

Contribution ID: **146**

Type: **not specified**

EIC detector infrastructure

Friday, 20 March 2020 11:20 (25 minutes)

Presenter: BREITFELLER, Mark (BNL)

Session Classification: Detector WG Central Detector / Magnet

Contribution ID: **147**

Type: **not specified**

Roman Pots at the LHC

Friday, 20 March 2020 09:30 (30 minutes)

Presenter: MURRAY, Michael (The University of Kansas (US))

Session Classification: Forward Detector/IR integration + Ancillary detectors/Polarimetry/Luminosity

Contribution ID: **148**

Type: **not specified**

First-round studies of the EIC's PDF implications

Friday, 20 March 2020 10:05 (15 minutes)

Presenter: HOBBS, Timothy (Southern Methodist University and EIC Center@JLab)

Session Classification: Physics WG Inclusive

Contribution ID: **149**

Type: **not specified**

Gluon Sivers Related Measurements

Friday, 20 March 2020 11:00 (25 minutes)

Presenter: ZHENG, Liang

Session Classification: Physics WG Jets, HF

Contribution ID: **150**

Type: **not specified**

TMD measurements in jets

Friday, 20 March 2020 11:25 (25 minutes)

Presenter: RINGER, Felix (UC Berkeley/LBNL)

Session Classification: Physics WG Jets, HF

Contribution ID: **151**

Type: **not specified**

Hadrons in jets

Friday, 20 March 2020 12:15 (25 minutes)

Presenter: MAKRIS, Yiannis (LANL)

Session Classification: Physics WG Jets, HF

Contribution ID: **152**

Type: **not specified**

Discussion

Friday, 20 March 2020 12:40 (20 minutes)

Session Classification: Physics WG Jets, HF

Contribution ID: **153**

Type: **not specified**

DVCS Analysis Framework

Thursday, 19 March 2020 17:10 (20 minutes)

Presenter: LIUTI, simonetta (universoty of virginia)

Session Classification: Physics WG Exclusive

Contribution ID: 154

Type: **not specified**

Joint session with the Jet/HF WG

Friday, 20 March 2020 11:00 (2 hours)

Session Classification: Physics WG Semi-Inc

Contribution ID: **155**

Type: **not specified**

Open Discussion

Friday, 20 March 2020 10:00 (30 minutes)

Presenter: JENTSCH, Alexander (Brookhaven National Lab)

Session Classification: Forward Detector/IR integration + Ancillary detectors/Polarimetry/Luminosity

Contribution ID: **156**

Type: **not specified**

Discussion

Thursday, 19 March 2020 17:45 (15 minutes)

Session Classification: Physics WG Jets, HF

Contribution ID: **157**

Type: **not specified**

Testing Lorentz and CPT symmetry at the EIC

Friday, 20 March 2020 10:20 (15 minutes)

Presenters: LUNGHI, Enrico (Indiana University); SHERRILL, Nathan

Session Classification: Physics WG Inclusive

Contribution ID: **158**

Type: **not specified**

Summary and concluding remarks

Friday, 20 March 2020 12:50 (10 minutes)

Session Classification: Detector WG Central Detector / Magnet

Contribution ID: **159**

Type: **not specified**

Particle ID WG Summary

Saturday, 21 March 2020 09:55 (10 minutes)

Presenters: ROSSI, Patrizia (Jefferson Lab); HEMMICK, Thomas (Stony Brook University)

Session Classification: Working Group Summaries

Contribution ID: **160**

Type: **not specified**

Calorimetry WG Summary

Saturday, 21 March 2020 10:05 (10 minutes)

Presenters: CHUDAKOV, Eugene (Jefferson Lab); BERDNIKOV, Vladimir (CUA)

Session Classification: Working Group Summaries

Contribution ID: **161**

Type: **not specified**

Far-Forward/IR/Polarimetry/Ancillary Detectors Summary

Saturday, 21 March 2020 10:15 (25 minutes)

Presenters: JENTSCH, Alexander (Brookhaven National Lab); GASKELL, Dave; ASCHENAUER, E. C. (BNL); MURRAY, Michael (The University of Kansas (US)); FURLETOVA, Yulia (Jefferson Lab)

Session Classification: Working Group Summaries

Contribution ID: **162**

Type: **not specified**

DAQ/Electronics WG Summary

Saturday, 21 March 2020 10:40 (10 minutes)

Presenters: CELENTANO, Andrea (INFN-Genova); NEYRET, Damien (CEA Saclay IRFU/DPhN)

Session Classification: Working Group Summaries

Contribution ID: **163**

Type: **not specified**

Central detector/Integration and Magnet WG Summary

Saturday, 21 March 2020 10:50 (10 minutes)

Presenters: KISELEV, Alexander (BNL); BROOKS, William

Session Classification: Working Group Summaries